

## United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

			•	U
APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/765,372	01/27/2004	Richard Westhoff	ASC-066	1594
51414 7590 07/23/2007 GOODWIN PROCTER LLP			EXAMINER	
	MINISTRATOR	MALSAWMA, LALRINFAMKIM HMAR		
EXCHANGE I BOSTON, MA			· ART UNIT	PAPER NUMBER
DOSTO11, 1411	1 02107-2001		2823	<del></del>
			MAIL DATE	DELIVERY MODE
			07/23/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

## Advisory Action Before the Filing of an Appeal Brief

Application No.		Applicant(s)		
10/765,372		WESTHOFF ET AL.		
ľ	Examiner	Art Unit		
l	Lex Malsawma	2823		

	Lex Malsawma	2823						
The MAILING DATE of this communication appe	ars on the cover sheet with the d	correspondence add	ress					
THE REPLY FILED 09 July 2007 FAILS TO PLACE THIS APPLICATION IN CONDITION FOR ALLOWANCE.								
1.  The reply was filed after a final rejection, but prior to or on this application, applicant must timely file one of the follow places the application in condition for allowance; (2) a No a Request for Continued Examination (RCE) in compliance time periods:	ving replies: (1) an amendment, aff tice of Appeal (with appeal fee) in (	fidavit, or other evider compliance with 37 C	nce, which FR 41.31; or (3)					
a) The period for reply expires 4 months from the mailing date	of the final rejection.							
b) The period for reply expires on: (1) the mailing date of this A no event, however, will the statutory period for reply expire to Examiner Note: If box 1 is checked, check either box (a) or (	dvisory Action, or (2) the date set forth ater than SIX MONTHS from the mailing	g date of the final rejecti	on.					
TWO MONTHS OF THE FINAL REJECTION. See MPEP 70		E FIRST REPLT WAS F	ILED MITHIN					
Extensions of time may be obtained under 37 CFR 1.136(a). The date		136(a) and the appropria	te extension fee					
have been filed is the date for purposes of determining the period of extunder 37 CFR 1.17(a) is calculated from: (1) the expiration date of the set forth in (b) above, if checked. Any reply received by the Office later may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  NOTICE OF APPEAL	ension and the corresponding amount shortened statutory period for reply origing than three months after the mailing da	of the fee. The appropr inally set in the final Offi	iate extension fee ce action; or (2) as					
<ol> <li>The Notice of Appeal was filed on A brief in comp filing the Notice of Appeal (37 CFR 41.37(a)), or any exter a Notice of Appeal has been filed, any reply must be filed</li> </ol>	nsion thereof (37 CFR 41.37(e)), to	avoid dismissal of th						
<u>AMENDMENTS</u>								
<ol> <li>The proposed amendment(s) filed after a final rejection, I</li> <li>They raise new issues that would require further control (b) They raise the issue of new matter (see NOTE belowed)</li> </ol>	nsideration and/or search (see NO		ecause					
(c) They are not deemed to place the application in bet appeal; and/or	ter form for appeal by materially re	ducing or simplifying	the issues for					
(d) They present additional claims without canceling a	corresponding number of finally rej	ected claims.						
NOTE: (See 37 CFR 1.116 and 41.33(a)).								
4. The amendments are not in compliance with 37 CFR 1.12	21. See attached Notice of Non-Co	mpliant Amendment	(PTOL-324).					
5. Applicant's reply has overcome the following rejection(s):	<u> </u>							
<ol> <li>Newly proposed or amended claim(s) would be all non-allowable claim(s).</li> </ol>		•	_					
<ol> <li>For purposes of appeal, the proposed amendment(s): a) how the new or amended claims would be rejected is proven.</li> </ol>	☐ will not be entered, or b) ☒ wil rided below or appended.	ll be entered and an e	explanation of					
The status of the claim(s) is (or will be) as follows:								
Claim(s) allowed: <u>35,45-52,80 and 81</u> . Claim(s) objected to: <i>NONE</i> .								
Claim(s) rejected: 1-34,36-44 and 76-79.		•						
Claim(s) withdrawn from consideration: NONE.								
AFFIDAVIT OR OTHER EVIDENCE								
8. The affidavit or other evidence filed after a final action, but because applicant failed to provide a showing of good and was not earlier presented. See 37 CFR 1.116(e).								
9. The affidavit or other evidence filed after the date of filing entered because the affidavit or other evidence failed to o showing a good and sufficient reasons why it is necessary	vercome <u>all</u> rejections under appea	al and/or appellant fai	ls to provide a					
10. ☐ The affidavit or other evidence is entered. An explanation REQUEST FOR RECONSIDERATION/OTHER	n of the status of the claims after e	ntry is below or attach	ned.					
11.   The request for reconsideration has been considered but see continuation sheet.	t does NOT place the application in	n condition for allowar	nce because:					
12. Note the attached Information Disclosure Statement(s).	PTO/SB/08) Paper No(s)							
13.								

The amendment filed 09 July 2007 will be entered because the listing of claims is the same as that filed on 19 December 2006, i.e., the listing of claims filed 09 July 2007 is a clean copy of the listing of claims filed on 19 December 2006.

Applicant's remarks/arguments have been carefully reviewed and considered, however, they are not persuasive because of the following reasons. Initially, it is noted, the word "throughout" is never used in the specification, accordingly, the limitation for "...diffusing...throughout the semiconductor layer" is clearly not disclosed by the specification. The specification discloses (on page 13, lines 7-10), "the annealing temperature may be sufficient to diffuse one or more of the elements included in the semiconductor layer 16 through a diffusion length at least equal to a quarter of the columnar period P2 (in an economically acceptable time)"; therefore, it would follow that a homogenous (i.e., relatively uniform) composition could be achieve if one of the elements diffuses through a diffusion length equal to a quarter of the columnar period P2, i.e., there would be NO requirement for one of the elements to diffuse throughout the semiconductor layer. Accordingly, the following remark is not persuasive (see Applicant's remarks on page 12, lines 13-15 in the response filed 9 July 2007), "If at least one of the two elements did not diffuse throughout the semiconductor layer, a homogeneous composition of the semiconductor layer could not be achieved".

In sum, with respect to the rejections under 35 U.S.C. 112, first paragraph, Applicant's remarks and the text portions of the specifications referenced by Applicant cannot overcome these rejections primarily because there is nothing in the specification requiring (or suggesting) that a diffusion "throughout" the semiconductor layer is necessary to achieve a homogeneous (i.e., a relatively uniform) composition.

In regard to Applicant's remarks with respect to the rejections under 35 U.S.C. 103, these remarks are essentially moot because they are generally directed to limitations provided by the new matter added to claims 1, 2, 16, 26 and 31, i.e., removing the new matter from the claims would essentially remove the basis of Applicant's remarks.

LEX MALSAWMA
PRIMARY PATENT EXAMINER